

## EDMUND DWEN GILL

Edmund Dwen Gill has served this Society well—a decade as secretary, five years as treasurer, and two years as president. This formal tribute to his life's work in this venerable hall is felicitous and appropriate, for due honour did not come early from his adopted community. Although Auckland-born, Melbourne has been the seat of his professional life.

Oliver Wendell Holmes remarked that the truest lives are cut rose-diamond fashion, with many facets answering to the many-planed aspects of the world about them. Holmes would approve of Gill.

Perhaps the brightest facet is his humanity, his communion with people, with young people, the common people. Gill graduated in divinity in quest of a career in youth work. A foundation member of the Associated Youth Committee of the National Fitness Council of Victoria, he rose to leadership here, then became Director of Youth Work for Victoria. This humane facet never dulled when his interest in science rose to ascendancy. From his second pulpit in the National Museum he brought science to the people, with many lectures, talks through the country districts and schools, broadcasts, articles in the *Victorian Naturalist*, magazines, and newspapers. He served the National Museum for a quarter of a century from Curator of Fossils to Deputy Director, consistently facing equally his responsibility to advance natural science and to interpret science to the man in the street. It is rare to find in the same person such capacity for sound and original research, and the ability to present science from the rostrum with such simplicity, clarity and charm. A related aspect of Gill's life has been his solid contribution to the chores of organized science. He never sought honorific, prestigious offices, but accepted with grace the laborious tasks as secretary or editor for many sections and committees of ANZAAS, Australian editor for *Palaeogeography*, *Palaeoclimatology*, *Palaeoecology*, Australian editor for *Pacific Geology*, on various international committees on the Quaternary, and of course for this society. Many here will remember the typically thorough job he did during the centenary of the Society, and the visit of HRH Duke of Edinburgh associated with it. The list is long, and largely unsung.

In the rarer atmosphere of senior science, several bright facets light up. Indeed thirty years ago I heard criticism of Gill that he spread too widely, and sought expertise in too many little-related fields. Certainly his work shows such diversity, but in my judgment all honour to him for so doing. Science herself knows no compartments, and whereas intensive specialists are necessary, we also need some capable of synthetic philosophy woven of many threads. In restricted disciplines the interloper often sees solutions fogged from the specialist. Of course such generalists may not be good specialists, but Gill always showed a patient capacity for taking pains on meticulous detail, and did in fact excel in his several distinct fields.

His first specialty was the Siluro-Devonian stratigraphy of Victoria and Tasmania, which involved him in critical field work and thorough study of fossils; he carefully reviewed the biology of the brachiopods, set up a new family, and recognized several new genera and many species. His work on the Devonian trilobites led to an argument with Ida Browne on the age of the Upper Trilobite Bed at Yass, and it is fair to say that Gill's suggestion is now accepted. He collaborated with world leaders such as G. Arthur Cooper of the US National Museum, Kenneth Caster of Cincinnati on carpoids and with Arthur Boucot on brachiopods. His work led him into the debate about the age of the Victorian Yeringian Series, previously regarded as Wenlockian

(mid Silurian), and Gill joined Ripper, Hill, and Jones in reducing its age to Early Devonian, somewhat athwart the establishment. He extended this work across the Tasman to New Zealand, and thence studied Siluro-Devonian correlations and palaeogeography through Australasia, and thence over all Gondwanaland. This led to his organizing internationally a symposium on the Silurian and Devonian in March 1965 with Professor Boucot as the main speaker. If Gill's work had been limited to his Siluro-Devonian stratigraphy, he would on that alone have earned a significant place in Australian geology.

The next facet of Gill's research is the one that set the theme of this symposium to honour him—shorelines and eustasy. This started as a hobby, but matured into a major mission with significant influence on his life. It brought him into conflict with the mogul (I would award Gill the honours here). His pursuit of eustasy spread from Victoria across Bass Strait and across the Tasman, and inspired his presidential address to this society. The quest also led him down divergent paths—Victorian Quaternary vulcanism; the pre-history of the Australian aboriginal, where he made significant advances, as well as contributing to the Australian section of *Catalogue des Hommes Fossiles*; fluorine dating, which led to papers on dental caries in fossil skulls and dental caries in relation to genetics; radio-carbon dating, which he pioneered in Australia, along with oxygen isotope determination of palaeotemperatures; Quaternary vertebrates, *Diprotodon*, *Thylacoleo* (the marsupial lion), *Macropus* (the giant kangaroo), *Sarcophilus* (the Tasmanian devil), *Vombatus* (the large wombat), *Pygoscelis* (penguins), about each of which he published papers; subdivision of the Australian Pleistocene; Quaternary climatology and palaeogeography and the floras, from diatoms to red gums; and to engineering consultancies, particularly in respect to harbour works here and elsewhere.

Here again he collaborated with other leaders; Rafter and MacIntosh on hominids, George Gaylord Simpson on vertebrates, Fairbridge on eustasy, Dorman on palaeotemperatures, Lester King on geomorphology, and Sweeting on speleology; and again in this field we see his committee-work-horse role: he produced scores of newsletters and literature reviews during his two decades as secretary of the ANZAAS committee on eustasy and shorelines, and during an even longer term as president of the International Union of Quaternary Research committee, and for as many more years as Australian correspondent to international Quaternary journals. He also served for ten years as vice-president of the Anthropological Society of Victoria. If Gill had done nothing else, his Quaternary work alone would have established his stature.

But more is to come. Gill contributed significantly to Cretaceous and Tertiary palaeontology and stratigraphy and palaeoclimatology, and to the definition of the Plio-Pleistocene boundary. Five years ago he was appointed research fellow in the CSIRO Division of Applied Geomechanics to develop quantification of shoreline processes. Gill has always shown a quest for precision—accuracy in semantics, precision in statement, rigorous measurement with fossils or dating or shore levels. Appropriately, later years have matured broader philosophy, in papers and exposition. He had always been a stimulating lecturer. A decade ago he was invited as visiting professor to the California Institute of Technology in Los Angeles.

To Edmund Dwen Gill I say, we appreciate your benevolence, we thank you for your selfless service, we respect your researches, and we honour you as a gentleman.

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